

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-314996
 (43)Date of publication of application : 02.12.1998

(51)Int.Cl. B30B 13/00
 B21D 37/04
 B30B 1/26
 B30B 15/04

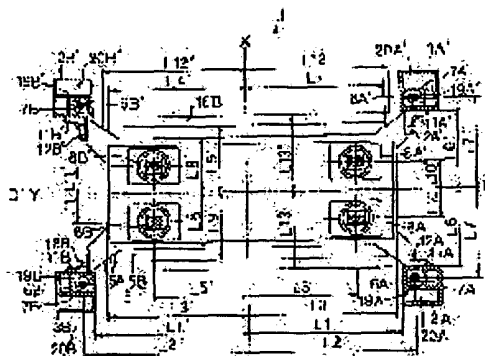
(21)Application number : 09-144682 (71)Applicant : AIDA ENG LTD
 (22)Date of filing : 19.05.1997 (72)Inventor : OBA SUSUMU

(54) TRANSFER PRESS

(57)Abstract:

PROBLEM TO BE SOLVED: To uniformize an eccentric load at the time of press working by arranging the left and right connecting rods of a slide driving device, asymmetrically against the center position between the left and right columns, with a shift to the upstream side in the work transporting direction.

SOLUTION: The center position of the right and the left connecting rod is shifted to the upstream side U in the work transporting direction from the center position X between the left and right columns. Four point units 8A, 8A', 8B, 8B' are provided. The point units 8B, 8A (8B', 8A') are provided with a shift to the upstream side U in the work transporting direction, asymmetrically against the center position X between the left and right columns 3B, 3A (3B', 3A"). Assuming L3 is a distance from the center position X between the left and right columns to the right-end face of a slide frame 5A, and L3' is a distance from the center position X between the left and right columns to the left-end face of a slide frame 5A, the condition is $L3 > L3'$.



LEGAL STATUS

[Date of request for examination]

25.10.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] While being divided into crown, a column, and a bed, giving and binding a pulley load tight with a tie rod and a nut and constituting a frame Two sets which have a die-height adjustment and an overload safety device, or four sets of point units are prepared. The slide driving gear which installs a slide inside I crown in the transfer press moving up and down through the connecting rod connected with the slide driving gear installed inside crown It has the reducer style of a couple, and to the center position between right-and-left columns, asymmetrically, the center position of a longitudinal direction is shifted to the upstream of the work conveyance direction, and a left connecting rod and a right connecting rod are arranged in it.

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The transverse-plane block diagram of the press machine in the 1st example of this invention

[Drawing 2] The upper surface cross section of the important section in the 1st example of this invention

[Drawing 3] The upper surface cross section of the important section in the 2nd example of this invention

[Drawing 4] The upper surface cross section of the important section in the 3rd example of this invention

[Description of Notations]

In 1, a transfer press and 1A crown, 3A, and 3A' for a frame and 2 A right column, In 3B and 3B', a left column and 4 a slide and 5A for a bed and 5 The slide frame section, 5B right tie-rod, 6B, and 6B' for slide-plate section, 6A, and 6A' A left tie rod, A [7], B [7], ** nut, 8A, 8A', 8B, and 8B' A point unit, 9A a left connecting rod and 10 for a right connecting rod and 9B A slide driving gear, 11A, 11B, 11A', 11B', 12A and 12B, 12A', 12B' a right main gear and 13B for a guide and 13A A left main gear, 14A and 14B a right pinion and 15B for an EKISEN sheave and 15A A left pinion, In 16A, a outfield-between-the-right-and-the-center gear and 16B a drive gear and 18 for a left middle gear and 17 A bolster, A conveyance driving gear and 18B 18A The bolster-plate section, 19A, 19B, 19A' and 19B' -- a tie-rod room, 20A and 20B, 20A', and 20B' -- wiring / piping room and U -- the upstream of the work conveyance direction, and D -- the downstream of the work conveyance direction, and X -- the center position between right-and-left columns, and Y -- the center position between order columns -- it comes out

[Translation done.]

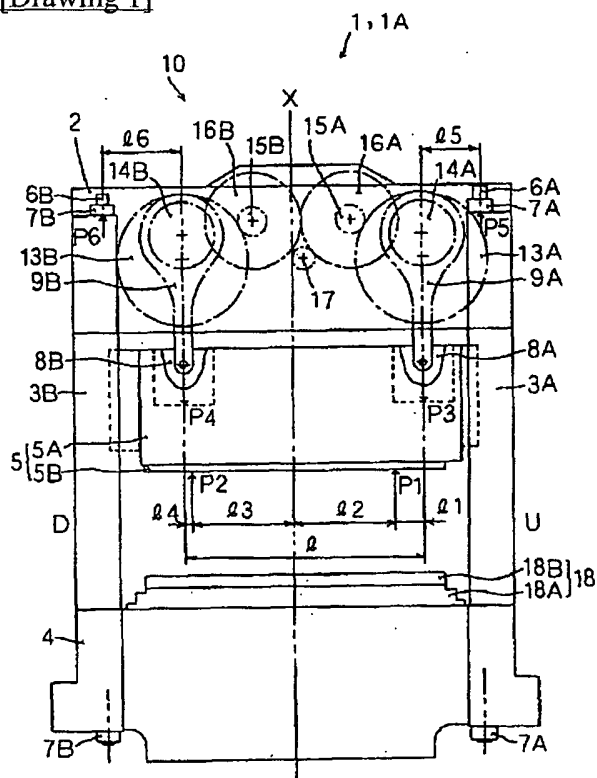
NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

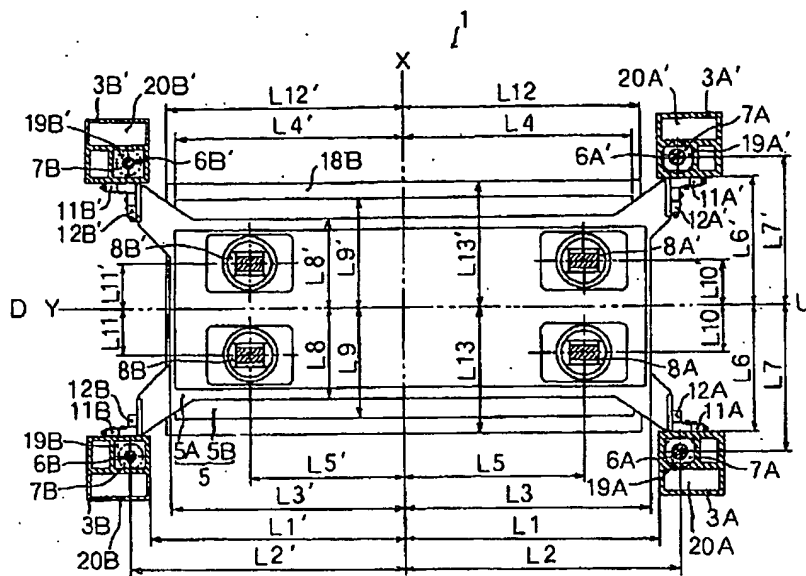
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

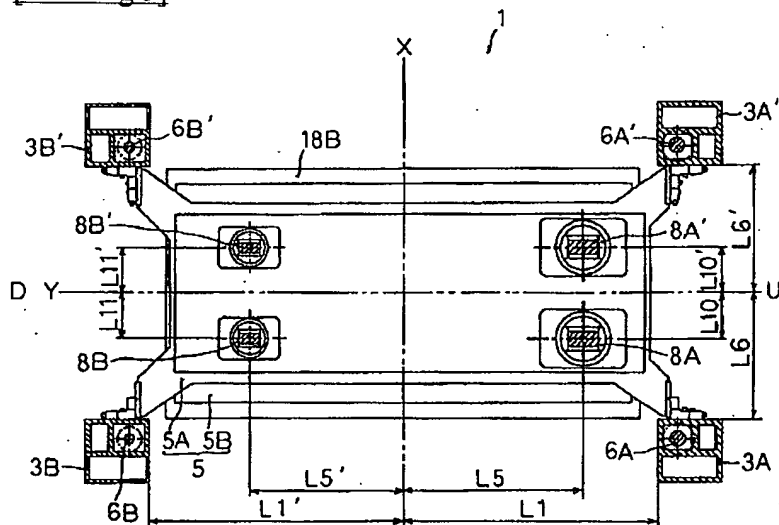
[Drawing 1]



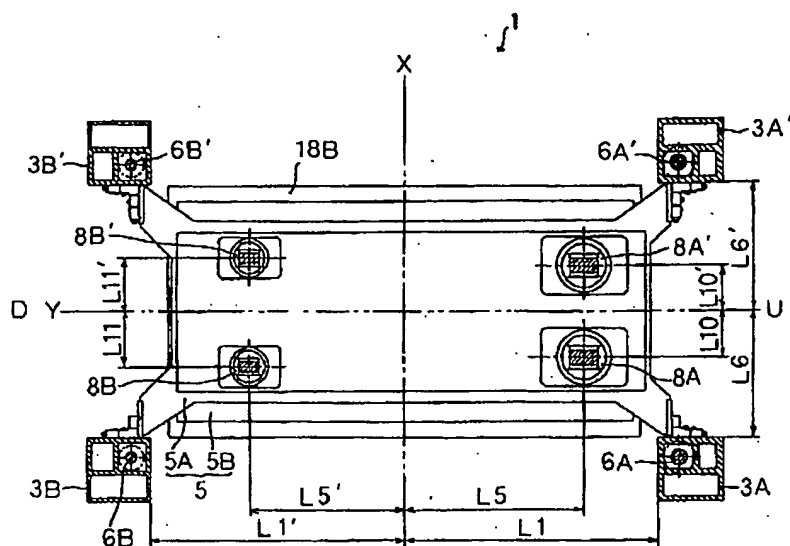
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]